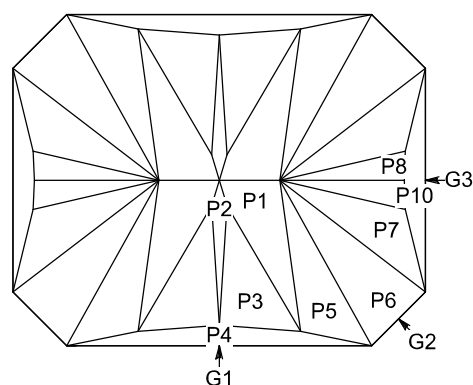
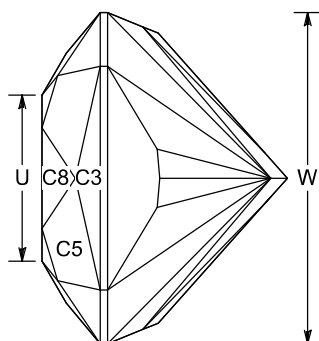
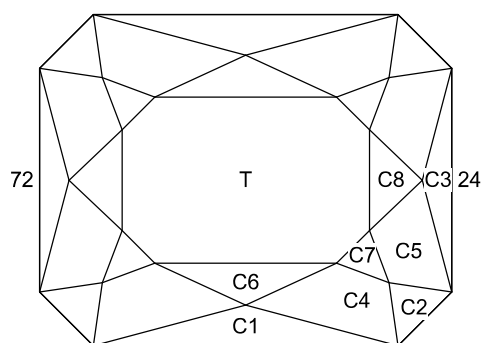


60

48

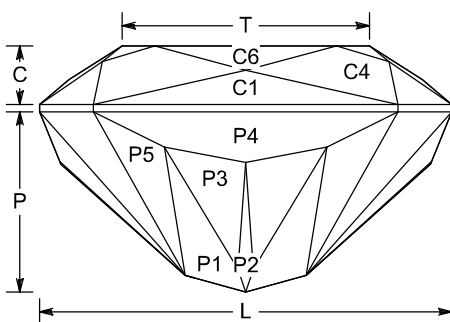
36



84

<96>

12



Pseudo-Radiant 1.25

by Arya Akhavan, adapted from ??? (November 2014)

Angles for R.I. = 1.580

55 + 8 girdles = 63 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.247 T/W = 0.748 U/W = 0.501

P/W = 0.545 C/W = 0.176

Vol./W³ = 0.427

PAVILION

P1	40.58°	05-43-53-91	Cut to centerpoint.
P2	41.83°	96-48	Meet at culet.
P3	42.32°	02-46-50-94	Meet P1, P2
P4	67.85°	96-48	Meet P2, P3
P5	41.00°	06-42-54-90	Meet P1, P3, P4
P6	41.92°	12-36-60-84	Meet P1, P5
P7	42.22°	17-31-65-79	Meet P1, P5, P6
P8	41.83°	23-25-71-73	Meet P1, P5, P6, P7
G1	90.00°	96-48	Set stone width.
G2	90.00°	12-36-60-84	Level girdle.
G3	90.00°	24-72	Meet P6, P7, G2
P10	67.85°	24-72	Level girdle.

CROWN

C1	40.00°	96-48	Set girdle width.
C2	40.00°	12-36-60-84	Level girdle.
C3	40.00°	24-72	Level girdle.
C4	34.00°	01-47-49-95	Meet G1, G2, C1, C2
C5	34.00°	23-25-71-73	Meet G2, G3, C2, C3
C6	30.00°	96-48	Meet C1, C4
C7	17.00°	12-36-60-84	Meet C2, C4, C5
C8	32.26°	24-72	Meet C3, C5
T	0.00°	Table	Meet C4, C6, C7; C5, C7, C8

Someone from Gemology Online sent me a basic crown and pavilion layout and asked me to come up with a similar design that had less of a bowtie and could be cut in a meetpoint manner. This is the result - I'm still not 100% happy with it, but Nick Fabri (one of my test cutters) loved it and I trust his judgment. Designed for topaz but works in materials from beryl to peridot (RI = 1.58 - 1.65) and can be scaled well for higher RIs.

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